




FORT

BENNING

Environmental Management System (EMS) Refresher Training

July 2006



How will the Environmental Management System (EMS) affect you?

After this training you will be expected to...:

- **Know Ft Benning's significant environmental aspects and potential impacts of your work**
- **Understand the benefits of improved personal performance**
- **Be aware of Ft. Benning's EMS objectives and targets**
- **Be familiar with the EMS policy and procedures**





Environmental Management System (EMS) Fundamentals



What is an Environmental Management System (EMS)?

- EMS is a system for planning and achieving responsible environmental management.
- EMS is based on a continuous cycle of





What is an EMS?

EMS Components:

- Plan - assessing operations and management and their impacts on resources.
- Do - integrate SMS policy and procedures throughout the system through document control, awareness training, structure, and responsibility.
- Check - ensuring the environmental programs are 'self-correcting'.
- Act - committing to compliance, pollution preventing, and continual improvement of the environmental program.





Why are we doing this? EMS Regulatory Drivers

Executive Order 13148

- **By 31 December 2005 Federal facilities must implement an EMS**
- **The EMS shall include measurable goals, objectives, and targets that are reviewed and updated annually**
- **Once established, EMS performance measures shall be incorporated in agency facility audit protocol**





Why are we doing this? EMS Regulatory Drivers

US Army Policy

- **Adopt ISO 14001 as the EMS goal**
 - A formalized series of voluntary international standards
 - Only standard to which a base can register
 - Modeled after ISO 9000, widely recognized worldwide
- **EMS implementation will be incremental**
 - Implementation shall be initiated NLT FY04
 - EMS shall be in place NLT December 2005
 - Fully conform with ISO 14001 NLT FY09





Individual Conformance

Why is it important for you to conform to the EMS and specified operating procedures?

- Negligence can lead to increased waste, accidents, spills, injuries, and potential fines, all of which impact the success of the mission.



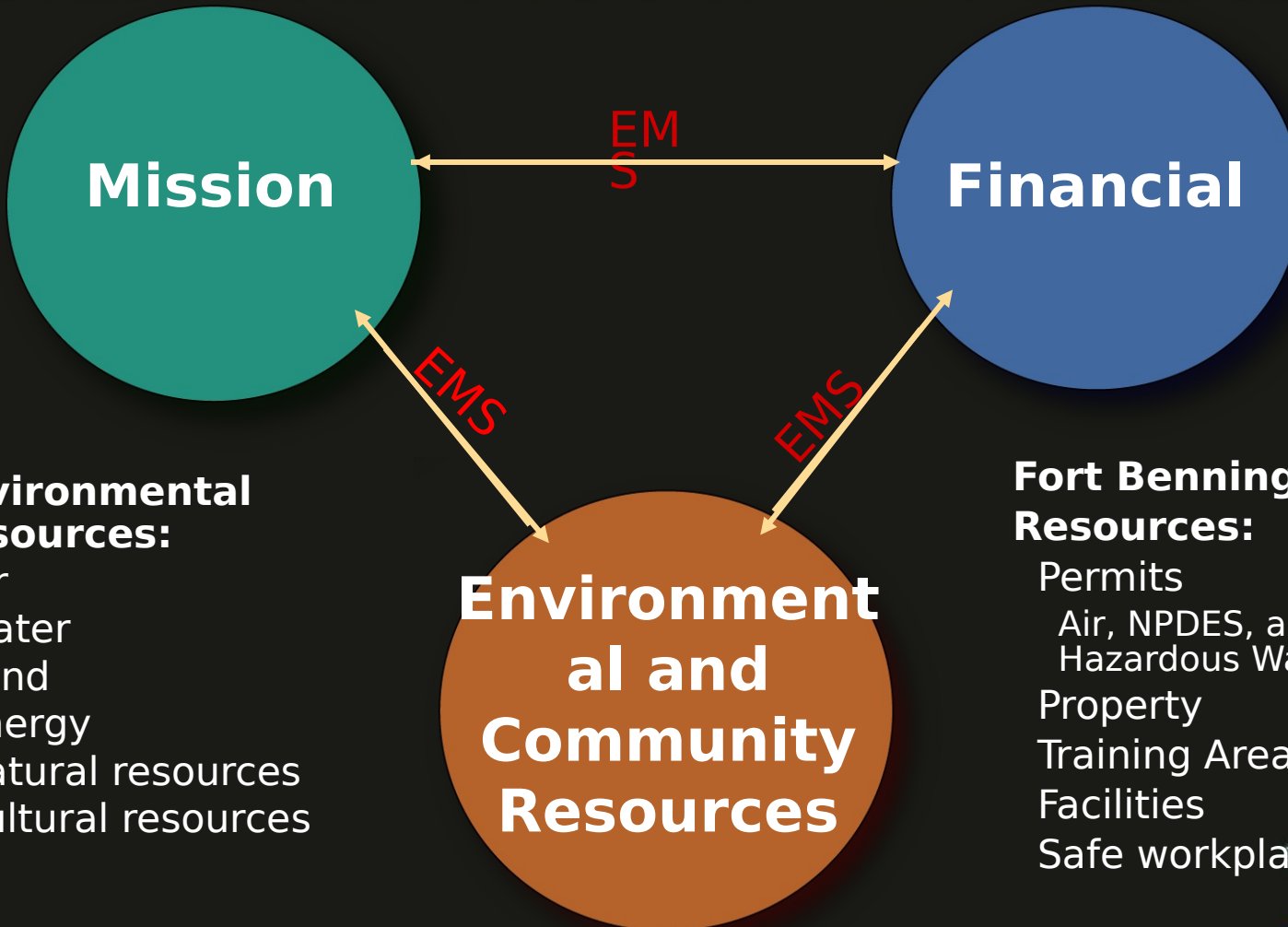


Benefits of EMS

- **Improves support and sustainability of mission activities**
- **Improved environmental performance**
- **Reduced costs**
- **Improved compliance (proactive vs. reactive)**
- **Improved process efficiency**
- **Fewer overlaps and gaps between programs**
- **Maximize use of existing capabilities**



Sustainable Installations





Understanding EMS - Ft. Benning Specifics





Ft. Benning's Environmental Policy

In order to execute the mission and achieve our environmental goals, Fort Benning will implement programs that ensure environmental compliance, prevent pollution, sustain natural and cultural resources, and promote continual improvement through the use of an Environmental Management System.





Ft Benning's Aspects & Impacts

What are Aspects & Impacts?

- **Aspect:** Elements of an organization's activities, products, and services which can interact with the environment.
 - Example: Uncontrolled release to surface water
- **Impact:** Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products, or services.
 - Example: Degradation of water quality





Ft. Benning's Significant Impacts


- Land & Soil
 - Military Training, Field Exercises and Equipment
- Water
 - Food Service
 - Uncontrolled and controlled release flow into surface water
- Air
 - Off-road, On-road Vehicles, Maintenance and Repairs
 - Facilities Operations and Construction



Example Objectives, Targets, and EMPs

- **Establish objectives and targets based on prioritized aspects**
 - Example Objective: Reduce solid waste disposal
 - Example Target: Divert 40% of solid waste from landfilling
- **Develop Environmental Management Programs (EMPs) to achieve the objectives and targets**
 - Who is responsible (Land & Soil, Water, and Air Workgroups)
 - What is to be done
 - When will the actions occur





Land & Soil: Objective and Target

- **Objective:**

- Continually increase acreage of usable training lands to support mounted and dismounted training.

- **Target:**

- Increase numbers acres of land to be used for mounted and dismounted training by 5 percent.






Land & Soil: EMP

- **Goals:**
 - Beginning with D6-D16, evaluate and prioritize damaged areas. Develop potential solutions and estimated price tag.
- **Land & Soil Workgroup:**
 - DOT, Conservation, EMS Manager





Water: Objective and Targets

- **Objective:**
 - Decrease impact to surface water quality.
- **Targets:**
 - Reduction in number of Sanitary Sewer overflows (SSOs).
 - Improve water quality training for construction and industrial activities.





Water: EMP for SSOs

- **Problem:**

- Sanitary Sewer Overflows (SSOs) occur in the housing and dining areas of Ft. Benning.

- **Goals:**

- Work with Columbus Water Works (CWW) to determine where the problem is the worst.
 - Increase awareness and education on the issue, concentrating in problem areas.

- **Water Workgroup:**

- Compliance, EMS Manager, CWW



Water: EMP for Water Quality Training

- **Problem:**

- Surface water quality is negatively impacted by work at construction and industrial areas.

- **Goals:**

- Research and develop the most efficient ways to train the construction and industrial workers on water quality issues.

- **Water Workgroup:**

- Compliance, Training, EMS Manager, CWW





Air: Objectives and Targets

- **Objective 1:**
 - Reduce particulate matter (PM) impacts from non-tactical vehicles.
- **Targets:**
 - Promote the use of alternative fuels for non-tactical vehicles used on Ft. Benning.
 - Cooperate with Federal and state regulators to ease the Clean Air Act regulatory burdens associated with prescribed burning.
- **Objective 2:**
 - Reduce VOC emissions.
- **Target:**
 - Use water-based Chemical Agent Resistant Coating (CARC) on Army weapons systems.





Air: EMP for Alternative Fuels

- **Problem:**

- Encouraging the use of alternative fuels.

- **Goals:**

- Educate the public to promote the use of the Ethanol-85 pump.
 - Ensure the bus fleet is using catalytic converters.

- **Air Workgroup Members:**

- P2, EMS Manager, Air Compliance





Air: EMP for Prescribed Burning

- **Problem:**

- PM regulatory burden is increasing, yet prescribed burning is needed.

- **Goals:**

- Work with regulators to decrease and manage the regulatory burden by pushing for a Smoke Management Plan.
 - Determine if increasing prescribed cycle is a possibility.

- **Air Workgroup Members:**

- P2, EMS Manager, Air Compliance





Air: EMP for Reducing VOCs

- **Problem:**

- VOC emissions from painting operations.

- **Goals:**

- Low VOCs painting options are available but are not usable until the AEC approves their use for all weapons systems at Ft. Benning.

- **Air Workgroup Members:**

- P2, EMS Manager, Air Compliance





EMS Management Team Roles and Responsibilities

Team Member

Primary Responsibility

Garrison Commander

Appoints EMS Management Representative and CFT, Signs the Environmental Policy, provides oversight and guidance, and conducts annual Management Review

Environmental Quality Control Council (EQCC)

Review EMS status and provide guidance, and participate in Annual Management Review

EMS Management Representative and EMS Program Manager

Handle day-to-day operations of EMS

EMS Cross Functional Team

Represent all installation functional areas, collect and organize information, develop EMS



Ft. Benning's Organizational Structure

Garrison Commander

EQCC

EMS Management Representative

EMS Program Manager

Cross Functional Team

DPW

DOL

DCA

**Safety
Office**

DOC

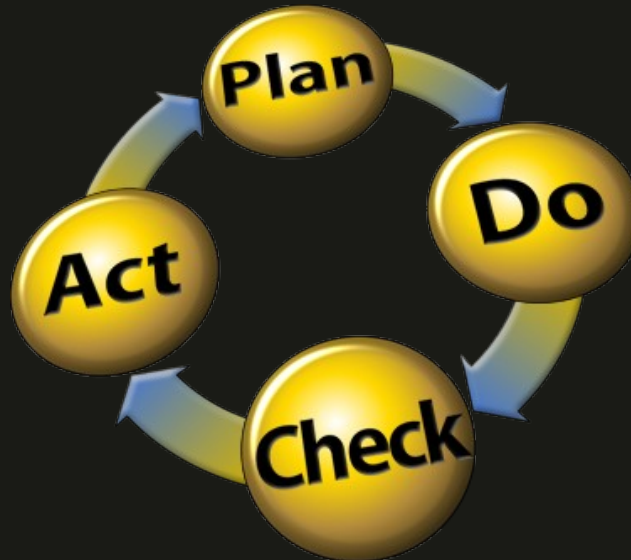
DRM

DOT





Keys to Success





EMS Management Team Roles and Responsibilities

Your Environmental Point of Contact:

- **Contact your shop or process supervisor and/or call 911 for all emergency situations.**
- **If additional EMS information is required Tom Tuten, EMS Program Manager (545-1298) or Lisa Smith, EMS Coordinator (545-1960).**





What to know about EMS

1. Understand EMS
2. Be familiar with Ft. Benning's environmental policy and procedures
3. Understand Ft. Benning's environmental aspects and the potential impacts of your work
4. Know your point of contact for EMS questions and emergency



Questions

